

TEMPERATURE DETECTOR CIRCUIT AND METHOD THEREOF

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ABSTRACT OF THE DISCLOSURE

To generate a signal when a target temperature is reached,
a temperature detector circuit comprises a first and second current
10 sources connected in series, of which the first current source
generates a PTAT current and the second current source is supplied
with a temperature-independent reference voltage to generate a
second current proportional to the reference voltage. The first and
second currents are a first and second reference currents,
15 respectively, at a reference temperature, and the first and second
current sources are configured such that the ratio of the second
reference current to the first reference current is proportional to the
ratio of the target temperature to the reference temperature.